

MEMORANDUM
March 3, 1975

State of
Washington
Department
of Ecology



TO: Lloyd Taylor and files
FROM: T. J. McCann *TJM*
SUBJECT: UNIVERSAL MANUFACTURING CORPORATION,
WOODINVILLE

This office has been aware of problems with the subject industry for approximately 4 years.

King County approved the establishment of an industrial park North and East of Woodinville in a wooded, swampy area long before sanitary sewers were available. The initial owner of Universal Manufacturing obtained approval from King County to establish an electronic manufacturing plant; the main business being the etching of circuit boards utilizing ferric chloride. An application for a waste discharge permit, concerning the use of a drainfield, was filed with this office in September, 1969.

This office became aware of the inadequate drainfield when waste waters were noted ponding above the drainfield and draining into an unnamed tributary to Bear Creek. Waste Discharge Permit No. T-4062, issued July 13, 1972, required that concentrated wastes be collected for reprocessing. The rinse waters were to be discharged to a separate drainfield and non-contact cooling water was to be discharged to surface waters. One of the owners, Chuck Atkins, was encouraged to contact King County Water District No. 104 for the purpose of forming a ULID to provide sanitary sewer service to the industrial park.

Since mid-1972, Universal Manufacturing has increased the production capacity and installed new plating facilities with rinse water effluent to surface waters. The ferric chloride etchant has been replaced with a proprietary ammonia-rich solution that keeps large quantities of copper in solution until the ammonia is stripped (by aeration, for example). KCWD104 completed construction of the sanitary sewers, but there was a disagreement with the contractor until January, 1975.

This office has been tolerant toward Universal Manufacturing because of the problems KCWD104 was having with the contractor and METRO. Universal Manufacturing in the meantime, has strained our relations by having "accidental spills" from the Lidcoa storage tanks, overloading the drainfield, and the diversion of plating rinse waters to surface waters.



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Curt Bruskium of KCWD104 has informed me that sewer connection notices were delivered to Universal Manufacturing in January, 1975. During a recent visit to Universal Manufacturing, Ken Mauermann was told that METRO would not allow them to connect to the sewer system. Larry Peterson of METRO told me that Universal Manufacturing was informed that they must meet the DOE interim guidelines which are the same as those included in draft NPDES Permit No. WA-002178-4 (submitted to Universal Manufacturing in September, 1974). To date, Universal Manufacturing has not responded to the draft NPDES permit, nor have they contracted to connect to the sanitary sewer system.

This office recommends that:

1. A \$250.00 fine be issued for now for past violations; and
2. An order be issued instructing Universal Manufacturing Corporation to:
 - a. Stop discharging contaminated waters to surface waters of the state or to the ground in a manner that will allow it to enter surface waters of the state.
 - b. Divert sanitary and pretreated industrial waste waters to the municipal sanitary sewer system within thirty (30) days.
 - c. Maintain the existing lagoon in such a manner and for the necessary length of time to intercept, precipitate, and collect copper compounds leaching from the drainfield and the contaminated storage areas.

This office has additional information referencing surveys conducted by this office and Ron Pine's group concerning the effect of the subject industry on the unnamed tributary and Bear Creek.

TJM:sc
3-3-75